STATE FOREST LAND
EVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decided whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. Highlighted questions are supplemental to the standard SEPA checklist. These questions look at the proposed project in relationship to the surrounding landscape. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at http://www.dnr.wa.gov under "SEPA Center." These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the attached forest practice application acres, or the actual timber sale acres.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered " does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

   Timber Sale Name: SHERIDAN Agreement #: 74828

2. Name of applicant: Department of Natural Resources

3. Address and phone number of applicant and contact person:

   Arne Johnson
   Department of Natural Resources
   P.O. Box 190
   Colville, WA 99114-0190

   Phone: (509) 684-7474

4. Date checklist prepared: April 10, 2003

5. Agency requesting checklist: Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):

   a. Auction Date: January 1, 2004
   b. Planned contract end date (but may be extended): January 1, 2006
   c. Phasing: None

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   No, not specifically related or connected to this proposal. However, as part of Northeast Region's long term plan to implement strategies and reach desired conditions the following activities may occur:

   Timber Sale

   a. Site preparation: Normal ground disturbance will occur with yarding operations. Broadcast or under burning may take place in portion of all units within the above described timber sales.

   b. Regeneration Method: Regeneration will occur naturally in all harvest units, however, some areas will be interplanted with ponderosa pine seedlings where early seral species are preferred.

   c. Vegetation Management: Ditchlines, headwalls, catch basins, and skid trails will be seeded with grass to minimize surface erosion, promote soil rehabilitation and reduce the spread of noxious weeds. The district will continue its aggressive roadside noxious weed control program, combined with road closures to minimize noxious weed introduction and spread.

d. Thinning: Precommercial thinning activities may occur within 15-20 years if funding is available.

Roads: See A.11

Rock Pits and/or Sale: Purchaser may obtain rock from an undeveloped site within the proposal or be responsible for finding off site sources.

Other: Firewood salvage of logging debris may occur following completion of the harvest.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

☐303 (d) – listed water body in WAU: ☐temp ☐sediment ☐completed TMDL (total maximum daily load):
☐Landscape plan:
☒Watershed analysis: Refer to West Fork Granite Watershed Analysis Assessment (USDA Forest Service) March 14, 2003.
☐Interdisciplinary team (ID Team) report:
☐Road design plan:
☒Wildlife report: Paul Wik memo dated March 12, 2003
☐Geotechnical report:
☐Other specialist report(s):
☐Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):
☐Rock pit plan:
☒Other: Water type inspection form, GIS generated WAU maps showing soil type, mass wasting erosion potential, soil stability and habitat type; Department of Natural Resources (DNR) TRAX; Washington State Department of Fish and Wildlife (WDFW) heritage database, DNR Smoke Management Plan issued in April of 1993; State Soil Survey and WDFW Priority Species Habitat Management Recommendations, and DNR's Forest Resource Plan

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None pending

10. List any government approvals or permits that will be needed for your proposal, if known.

☐HPA ☐Burning permit ☐Shoreline permit ☐Incidental take permit ☒FPA # _____ ☐Other:

11. Give brief, complete description of our proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description.)

a. Complete proposal description:

This proposal is located in the Republic WAU. The initial proposal area was approximately 860 acres. Harvest units were selected after careful field observation of forest health issues and wildlife concerns. The gross acreage (314 acres) of the current proposal includes existing and new rights of way, Type 4 RMZs, and non-timbered exclusion areas. The Sheridan Timber Sale includes the commercial harvest of approximately 3.415 Mbf of conifer timber volume within 283 net harvest acres.

b. Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.

Pre-harvest Description: The stands within the sale originated approximately 80 years ago, but do contain some older trees that survived the fires in the first part of the 1900s. The Sheridan sale area is composed of a mix of Douglas fir, western larch, and ponderosa pine with minor components of lodgepole pine and Engelmann spruce. All units are fully stocked and have past silviculture activities. Parts of Units 1, 3, 4, and 5 show signs of being partially logged approximately 20-30 years ago. Unit 2 is fully stocked with Douglas fir, ponderosa pine, western larch, Engelmann spruce and lodgepole pine with no evidence of past harvesting activities. Units 3, 4, and 5 show signs of precommercial thinning operations approximately 20 years ago. Dwarf mistletoe is affecting much of the western larch scattered throughout the sale area.

Type of Harvest: All units will be evenaged harvested with approximately 10-17 dominant and codominant trees per acre greater than 12 inches dbh to be retained. Leave trees are marked with blue paint. Timber harvesting in Units 1, 2, 4, and 5 will include a mark leave of Douglas fir and western larch. Timber harvesting in Unit 3 will include a mark leave of Douglas fir, ponderosa pine, and western larch. No snags marked with blue paint are to be felled during harvest operations, unless they need to be felled for safety or operational reasons. Unmarked snags, hardwoods and ponderosa pine are not to be felled unless they need to be felled for leave trees will be randomly scattered throughout the units.

Overall Unit Objectives: Objectives in Units 1, 2, 3, 4, and 5 include the overall reduction in basal area of Douglas fir and western larch, randomly scattering leave trees throughout the units for wildlife while opening up the canopies for successful regeneration of early seral ponderosa pine. Harvest prescription will move the stand towards a species mix that is less susceptible to large scale insect and disease damage. Provide sustainable financial benefit to Trust 03 (schools). Manage stands to reduce catastrophic fire danger potential in the area, and to protect the site quality and productivity.

c. Road activity summary. See also attached forest practice application (FPA) for maps and more details.

As part of this proposal there will be 3,188 feet of temporary new construction where roads will be abandoned after use, 2,158 feet of reconstruction, 15,384 feet of road abandonment of existing road and 25,980 feet of prehaul maintenance.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction	2	3,188	3	
Reconstruction	2	2,158	4	
Maintenance		28,492	21	
Abandonment		18,572	15	
Bridge Install/Replace				
Culvert Install/Replace (fish)				
Culvert Install/Replace (no fish)	3			

Construction: All new road construction is temporary and will be abandoned after harvest activities are completed. New construction for Sheridan Timber Sale will include 3,188 feet of new right of way in Section 20, Township 37 North, Range 32 East, W.M. The 373220A road has 964 feet of new construction, and the 373220B road has 2,224 feet of new construction. In addition the 373220B road will have 50 feet of rock between station 20+05 and station 20+55 and 18"x28' culvert at station 20+30.

Reconstruction: Reconstruction will be taking place in Sections 21 and 28, all in Township 37 North, Range 32 East, W.M., on the 373228A road and the 373221 road. Reconstruction on the 373228A road will include 188 feet of rock surfacing between station 10+58 and station 12+46 and installation of a 18"x28' culvert at station 11+30. Total reconstruction on the 373228A road will be 188 feet. The 373221 road will require 1970 feet of brushing.

Pre-haul Maintenance: There will be 28,492 feet of pre-haul maintenance, which will include 7,700 feet on the 373228 road. Pre-haul maintenance on the 373228 road will include rocking the approach (off of the Swamp Creek road) with 50 feet of rock. Other maintenance activities further up the 373228 road include constructing rocked ditchlines between station 3+00 and 4+50 and installation of a 24"x28' culvert at station 41+42 with armored inlet. In addition, Boise Cascade has granted a Road Use Permit for 15,360 feet of road on the 373229 road in Sections 20 and 29, all in Township 37 North, Range 32 East, W.M.

Abandonment: The abandonment of existing roads in this proposal. There will be 15,384 feet of road abandonment associated with the Sheridan Timber Sale. Abandonment of the 373221, 373228A, 373228B, 373228C, 373228D, 373228E and 373228F roads will occur as a part of this proposal. Abandonment can include removing culverts, ripping running surfaces, installing non-drivable water bars, constructing tank traps and/or grass seeding where needed.

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. (See attached timber sale map. See also color landscape/WAU map on the DNR website http://www.dnr.wa.gov under "SEPA Center.")

a. Legal description:

Sections 20, 21, 28, and 29, all in Township 37 North, Range 32 East, W.M.

b. Distance and direction from nearest town (include road names):

Proposed timber sale is five miles northwest of the town of Republic, Washington. Access for Units 1 and 2 are via the Sheridan County Road. The remaining units are located off the Swamp Creek Road on the 373228 Road.

c. Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website http://www.dnr.wa.gov under " SEPA Center.")

WAU Name	WAU Acres	Proposal Acres
Republic	50,826	283 net

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website http://www.dnr.wa.gov under "SEPA Center" for a broader landscape perspective.)

This proposal is located in the Republic WAU. The WAU has mixed forestland ownership. The following is a summary of observations utilizing Forest Practice information, ortho photos, DNR's WAU map and local knowledge. State ownership comprises of approximately 9% (approximately 4,498 acres) of the WAU. Non-DNR ownership which includes industrial landowners is approximately 91% of the WAU. The DNR is proposing to sell timber in Sections 20, 21, 28, and 29, all in Township 37 North, Range 24 East, W.M. as a part of this proposal. It is anticipated that DNR will have additional timber sales within the WAU in the future. Approximately 41% of the WAU falls within the Okanogan and Colville National Forests. Approximately 943 acres have had harvest treatment in the Colville National Forest in the Republic WAU since 1960. No treatments have taken place since 1990. Current proposed actions for the National Forest includes 5,700 acres of under burning near Storm King Mountain to reduce hazardous fuel buildups. The DNR has a checkerboard ownership throughout the WAU. There are scattered residences and small private holdings as well. A timber sale containing approximately 93 acres within the Republic WAU, in Section 16, Township 36 North, Range 32 East, W.M., has been sold.

There is approximately 25,346 acres of private forestland in the WAU. Current and expired (last seven years) Forest Practice applications have been submitted on an estimated 6,000-6,700 acres of private forest land. It is estimated that 55-65% of the harvests identified in the current and expired (within the last seven years) Forest Practice applications have been for unevenaged harvests. It is not known how much and/or when other landowners will conduct future harvests on their ownerships that have had an approved Forest Practice application.

To assure this proposal will not contribute to an increased chance of environmental impact, several protection measures have been included in the proposal. Approximately 5.3 miles (25,980 feet) of existing roads are being utilized throughout the entire sale area. Water bars and/or drivable dips and grass seeding will reduce the erosion potential. Approximately 3.5 miles (18,572 feet) of road will be abandoned following completion of the harvest. Abandonment includes ripping road surface, pulling culverts, installing non-drivable water bars, tank traps, and grass seeding. See B.1.h. for erosion and mass wasting protection measures. Additional measures include: limiting ground disturbing activities around the perimeter of Type B wetland and minimizing the construction of new roads. Additional measures include: limiting ground disturbing activities around the perimeter of Type B wetland and minimizing the construction of new roads.

Leave trees will be randomly distributed throughout the interior of the units. Approximately 10-17 dominant and codominant trees per acre are marked to be left. An additional 671 trees will be left in the Type 4 RMZ in Unit 4. Leave trees were selected from the largest diameter size classes available and deformed or cull trees were given preference. See B.4.b. for additional retention tree information within and adjacent to the units.

This proposal should result in no significant impact on or contribution to peak flow events within the Republic WAU. All activities have been planned with water quality/flow in mind, and care has been taken to minimize the potential for adverse impacts. There are several residences located 1.5 miles east (downstream on Swamp Creek) of the proposed sale area. All proposed activities associated with this proposal have been designed to avoid any potential impact to water quality.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

☐Flat, ☐Rolling, ☒Hilly, ☐Steep Slopes, ☐Mountainous, ☐Other:

1) General description of the WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).

The Republic WAU is located in the hilly terrain of western Ferry County, most of which falls within Colville National Forest ownership. Elevations range from 2,000 feet to 5,000 feet. Average precipitation ranges from 15 to 25 inches, most of which falls in the form of snow. The surrounding forest is dominated by Douglas fir and western larch, with minor components of ponderosa pine, lodgepole pine, and Engelmann spruce. The vegetation zones found in this WAU are ponderosa pine, interior Douglas fir and subalpine fir. Landforms within the WAU include flat benches, bluffs, rolling hills, mountainous steep slopes and valleys. Lands within the watershed are approximately 56% forest land, while 44% is considered as other use.

2) Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).

All of the proposed activities are located at mid elevation in the Republic WAU ranging from 2,800 to 4,200 feet. The proposal is in the inland Douglas fir vegetation zone. The primary species to be harvested are Douglas fir and western larch, with ponderosa pine, lodgepole pine, and Engelmann spruce being minor components. Units 1, 3, 4, and 5 are east facing and Unit 2 is west facing.

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slope included in the sale area is approximately 55%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.

State Soil Survey #	Soil Texture	% Slope	Acres	Mass Wasting Potential	Erosion Potential
9417	Xerochrepts Rock Outcrop Complex	15-45%	98	No data	Medium
8139	Sandy Loam	25-45%	59	Medium	Medium
4724	Sandy Loam	0-25%	45	Insignificant	Low
4730	Stony Sandy Loam	25-45%	37	Low	Medium
4728	Stony Sandy Loam	0-25%	26	Insignificant	Low
4291	Gravelly Sandy Loam	15-45%	10	Low	Medium
0677	Loam	0-25	3	Insignificant	Medium
8221	Typic Haploxerolls Rock Outcrop Complex	15-50%	3	No Data	No Data
8138	Sandy Loam	5-25%	1	Insignificant	Medium
9418	Xerochrepts Rock Outcrop Complex	45-70%	1	No Data	No Data

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

1) Surface indications:

No surface indications or history of unstable soils in the immediate vicinity are known. Some of the soils listed above are shown to have medium or high potential for erosion and/or mass wasting or no data. Onsite verification has determined there is no indication of unstable slopes within the proposal. See B.1.h for erosion and mass wasting protection measures.

2) Is there evidence of natural slope failures in the sub-basin(s)?
☒No ☐Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

3) Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?
☐No ☒Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:
Associated management activity:

Small local events can be found along the cut bank of the 373229 road at station 65+89. These consist primarily of sloughing of material into ditches and occasionally onto road surfaces. Another local event can be found from station 3+00 to station 5+83 on the 373228 road. This includes some sloughing of material onto the road surface.

4) Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?
☐No ☒Yes, describe similarities between the conditions and activities on these sites:

Existing road cut slopes and soil types located in this proposal are similar to where other isolated road related failures have occurred. Roads have been located on as gentle ground as possible. Preventative and corrective measures will be taken to avoid any resource or capital improvement damage due to slope failures or soil erosion.

5) Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.

All harvest units have been located on as gentle ground as possible. In addition, harvest in the RMZs has been deferred. Roads are designed and located to reduce any potential for slope stability. Furthermore, new construction has been located on as gentle ground as possible in order to reduce the amount of excavation, road cuts, and side cast required and will allow for proper drainage. See B.1.h. for protection measures.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Approx. acreage new roads: 3 Approx. acreage new landings: 4 Approx. acreage rock pit fills: None
Fill source: Onsite material will be used for culvert installations.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion can occur as a result of harvest and hauling activities, see B.1.h.for protection measures.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? Approximate percent of proposal in permanent road running surface (includes gravel roads):

None of the site will be covered with impervious surfaces after project construction. Approximately 3% of the sale area in the immediate vicinity of this proposal will be covered by roads. Roads will be natural material. The gate located on an industrial landowner of the 373229 road will close off 15,360 feet of road, which should minimize traffic and allow the roads to become revegetated. Abandonment of the 373220A, 373220B, 373221, 373228A, 373228B, 373228C, 373228D, 373228E, and 373228F roads will include removing culverts, ripping running surface, installing non-driveable water bars, tank traps, and grass seeding. This will eliminate traffic and allow the roads to become revegetated.

h. Propose measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)

New road construction for this project has been minimized. All roads have been located on as gentle ground as possible in order to reduce the amount of excavation, road cuts, and sidecast required, and will be built to allow for proper drainage. Proper road construction design, location, good construction techniques, coordinated skidding patterns and landing locations, effective contract administration and normal road maintenance will reduce the potential for erosion. Other protection measures include 18,572 feet of abandonment of new and existing roads, which can include ripping road surface, pulling culverts, installing non-drivable water bars, tank traps, and/or grass seeding. Roads will be constructed, reconstructed and maintained to disperse surface flow and direct it to safe disposal sites, allowing water to filter into the forest floor prior to its entry into streams.

Timber hauling on any roads, including graveled county roads, will not be allowed from March 1 through June 1, or during extreme wet weather that causes excessive rutting of the road surfaces. Road construction and prehaul maintenance will not take place from November 1 through June 1 (winter and spring breakup), unless approved by the contract administrator. Existing roads are being utilized where possible and some will be reconstructed to allow for proper drainage, reduce the amount of water being delivered in ditchlines and minimize surface erosion of running surfaces by outsloping and installing drivable dips

In addition, no timber harvesting will occur near the Type 4 waters in Sections 21 and 28, all in Township 37 North, Range 32 East, W.M. This particular Type 4 water will be protected by a two-sided RMZ measuring 50 horizontal feet from bankfull width. No harvesting will occur within this RMZ, which is clearly marked with yellow leave tree tags and blue flagging. In addition, all felling, bucking, yarding or skidding will be away from the RMZ. Another Type 4 stream with the perennial initiation point marked on the Forest Practice Activity Map was found at the NE1/4SE1/4, Section 21, Township 37 North, Range 32 East, W.M.. It is outside the sale area boundary by 50 horizontal feet and will have no harvesting activities. A Type B wetland is located in SE1/4NW1/4, Section 29, Township 37 North, Range 32 East, W.M. This particular wetland is between .25 and .5 acres in size. The perimeter of this Type B wetland is flagged/tagged in red and will be closed to all ground based equipment and felling operations.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust from truck traffic, rock mining, crushing or hauling, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Smoke and dust will be created by equipment associated with timber harvesting, log hauling, and road construction/reconstruction/prehaul maintenance activities. Such emissions will be minor in volume, and have insignificant impact to overall air quality. If slash burning occurs, it will adhere to the state's smoke management program.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No off site sources of emissions or odors will affect this proposal.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Dust abatement will be performed as needed on the 373228 and 373229 roads from June 1 to November 1.

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. (See attached timber sale map and forest practice base maps.)

Yes, all stream types and locations in the proposal were field verified as per the Forest Practice Water Type Interim Rules. Stream type changes were approved on May 3, 2003. One stream segment was upgraded. Many streams identified as Type 5 on the Forest Practice Base Map were determined to be non-typed draws. Stream types and locations associated with the proposal are:

Type 3 stream - North Fork Granite, which is in the vicinity of proposed harvest in Units 3, 4, and 5.

Type 3 stream, Granite Creek. Stream segment is in the vicinity of proposed harvest in Units 3, 4, and 5.

Type 5 stream segment starting in SW1/4NW1/4, Section 21, Township 37 North, Range 32 East, W.M. This segment of stream has scour, channeling, deposition, and connectivity to a greater typed water. No connectivity by channeling exists above. Stream segment is in the vicinity of proposed harvest in Units 1 and 4.

Type 4 stream segment starting in NW1/4SW1/4, Section 21, Township 37 North, Range 32 East, W.M. Stream segment is in the vicinity of proposed harvest in Unit 4.

Type 4 stream segment starting in the NW1/4SE1/4, Section 21, Township 37 North, Range 32 East, W.M. Stream segment is in the vicinity of proposed harvest in Unit 5.

Type B wetland located in SE1/4NW1/4, Section 29, Township 37 North, Range 32 East, W.M. This wetland is between .25 and .5 acres in size.

a) Downstream water bodies:

North Fork Granite Creek

b) Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in Feet (per side for streams)
Wetland	Type B	1	None required (<0.5 acres)
Stream G	Type 4	1	50’ per side
Stream J	Type 4	1	Outside sale area boundary, >50’
Stream - North Fork of Granite Creek	Type 3	1	Outside the RMZ and sale area - North Fork of Granite Creek

c) List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.

As part of this proposal there will be timber harvesting near Type 4 water in Sections 21 and 28, all in Township 37 North, Range 32 East, W.M. This particular Type 4 will be protected by a two-sided RMZ measuring 50 horizontal feet from bankfull width. The 373220B road will have 50 feet of rock between station 20+05 and station 20+55 and 18”x28’ culvert at station 20+30. Currently there is a culvert at station 14+78 on this Type 4 stream segment. In addition, the 373228A road will have rock and ditchline placed between station 10+58 and station 14+46 for a total length of 188 feet and installation of a 18”x28’ culvert at station 11+30. No harvesting will occur within this RMZ, which is clearly marked with yellow leave tree tags and blue flagging. Furthermore, all felling, bucking, yarding or skidding will be away from this RMZ so as not to damage any resource. This Type 4 stream drains into a Type 3 stream identified as the North Fork Granite Creek on Forest Practice activity maps. Granite Creek has several Type A wetlands and an active beaver colony. Roads 373228E, 373228C, and 373228A are currently within RMZs and will be abandoned to minimize potential for resource damage. Another Type 4 stream with a perennial initiation point (marked on Forest Practice map) was found at the NW1/4SE1/4, Section 21, Township 37 North, Range 32 East, W.M. It is outside the sale area boundary by 50 horizontal feet and will have no harvesting activities. Protection measures for the 373228 road include armoring the cmp inlet at station 41+42. The perimeter of a Type B wetland less than 0.5 acres in the SE1/4NW1/4, Section 29, Township 37 North, Range 32 East, W.M., is bounded by red flagging and will be closed to all ground based equipment and felling operations.

2) Will the project require any work over, in, or adjacent to (within 200 feet) to the described waters? If yes, please describe and attach available plans.
☐No ☒Yes (See RMZ/WMZ table above and attached timber sale map.)
Description (include culverts):

See B.3.a.1.c for descriptions.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

No fill or dredge material will be placed in or removed from surface water or wetlands. Fill and dredge material will be the absolute minimum needed for the installation and possible subsequent removal of culverts. Clean adjacent fill material will be used and managed prudently.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (Include diversions for fish-passage culvert installation.)
☒No ☐Yes, description:

No surface water withdrawals or diversions are anticipated.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
☒No ☐Yes, describe location:

The proposal does not lie within a 100-year flood plain.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
☒No ☐Yes, type and volume:

No discharge of waste materials to surface waters is anticipated.

7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?

Approximate potential mass wasting percentages for the Republic WAU are: 36% insignificant, 26% low, 24% medium, 2% high, and 12% has no data. Approximate potential soil erosion percentages for the Republic WAU are: 3% not applicable to soil erosion potential, 4% have no data, 23% low, 48% medium, and 22% high. Thre is little potential for eroded material to enter surface water as a result of this project. See B.1.h., for protection measures.

8) Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?
☒No ☐Yes, describe changes and possible causes:

No, however there is a history of periodic high water events that flush streams, which seem to be part of natural processes. There are isolated occurrences of livestock use, which may cause local impacts to individual streams. However, there is no evidence of change in the channels throughout the WAUs due to surface erosion or mass wasting.

9) Could this proposal affect water quality based on the answers to the questions 1-8 above?
☒No ☐Yes, explain:

There is little or no adverse impact to stream flow or water quality anticipated as a result of activities associated with this proposal. Sale unit design, skidding patterns, distance from streams, operating seasons, and prescriptions should minimize any potential for adverse impacts.

10) What are the approximate road miles per square mile in the WAU and sub-basin(s)?
Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?
☐No ☒Yes, describe:

Road miles per square mile in the Republic WAU is approximately 2.8 miles of road per section. DNR ownership in the WAU contains approximately two miles of road per section. The percentage of road miles carrying water for extended periods of time is being minimized since water is diverted from or kept off of road surfaces to the greatest extent possible. In addition, 3.5 miles of road will be abandoned following harvest operations.

Currently there are small amounts of surface erosion on the DNR 373228A and 373228A, and 373228C roads. Mitigation measures include cleaning out ditchlines, building drivable water bars, installing culverts and abandonment.

11) Is the proposal within a significant rain-on-snow (ROS) zone? If not, **STOP HERE** and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.
☐No ☒Yes, approximate percent of WAU in significant ROS zone.
Approximate percent of sub-basin(s):

68% of Republic WAU is in the rain on snow zone.

12) If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?

Photo interpretation of recent (2000) photos of the WAU indicates that an estimated 67% of the forested area in ROS zone remains hydrologically mature.

13) Is there evidence of changes to channels associated with peak flows in the WAU or sub-basin(s)?
☒No ☐Yes, describe observations:

14) Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.

As part of this proposal 3.5 miles of road will be abandoned. Abandonment will include pulling culverts, ripping road surface, installing non-drivable water bars/tank traps and grass seeding. This abandonment will minimize the potential for adverse impacts by closing approximately 26% of DNR roads in this WAU. Hydrologic connectivity will be restored and the amounts of road carrying water will be reduced. In addition all new roads (3,188 ft.) are located on as gentle as ground as possible and designed to divert surface runoff onto the forest floor. Other protection measures that will minimize peak flow events include 11 acres of no harvest RMZ in Unit 4 and protecting a Type B wetland in Unit 2. The federal ownership (Colville National Forest) is proposing an underburn on approximately 2,560 acres near Storm King Mountain. Underburning is low intensity surface fire under prescribed conditions for the purpose of consuming surface fuels and seedlings, killing undesirable small-diameter saplings and scorching low hanging limbs. See A.13., for additional ownership information and protection measures.

15) Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?
☒No ☐Yes, possible impacts:

There should be no changes to surface water amounts as a result of this proposal.

16) Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.

Harvests have been designed away from any typed water. Proper road maintenance and cross drainage will insure that water accumulating on running surfaces will be dispersed onto the undisturbed forest floor. Harvest areas will be replanted to insure rapid reestablishment of forests back on the landscape. The actual change to the amount of forested vegetative cover will be minimal considering the overall size and ownership of the WAU. See B.1.h for additional protection measures.

b. Ground Water:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No ground water will be withdrawn. Should any ground water be intercepted during road construction, it will immediately be routed across the road to maintain connectivity. Ground water recharge directly below cross drain installation/construction may increase slightly.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

The discharge of waste materials described above into the ground is not anticipated

3) Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?
☒No ☐Yes, describe:

a) Note protection measures, if any.

See B.1.h. for protection measures.

c. Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Snowmelt and rain are the main sources of water runoff. Runoff that is intercepted by road surfaces and ditches will be diverted onto the undisturbed forest floor.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No waste materials are anticipated to enter ground or surface waters as a result of this proposal.

a) Note protection measures, if any.

No protection measures are anticipated.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)

Activities associated with this proposal will meet or exceed Forest Practice rules and regulations. See B.1.h., and B.3.a.2., and B.3.a.9, for other measures that will reduce or control surface, ground and runoff impacts.

4. Plants

a. Check or circle types of vegetation found on the site:

☒deciduous tree: ☒alder, ☐maple, ☒aspen, ☒cottonwood, ☒western larch, ☐birch, ☐other:
☒evergreen tree: ☒Douglas fir, ☐grand fir, ☐Pacific silver fir, ☒ponderosa pine, ☒lodgepole pine, ☐western hemlock, ☐mountain hemlock, ☒Englemann spruce, ☐Sitka spruce, ☐red cedar, ☐yellow cedar, ☐other:
☒shrubs: ☐huckleberry, ☐salmonberry, ☐salal, ☒other: Ninebark, serviceberry, oceanspray
☒grass
☐pasture
☐crop or grain
☒wet soil plants: ☐cattail, ☒buttercup, ☐bullrush, ☐skunk cabbage, ☐devil's club, ☐other:
☐water plants: ☐water lily, ☐eelgrass, ☐milfoil, ☐other:
☐other types of vegetation:
☒plant communities of concern: trail plant, heartleaf arnica, bunch berry, western meadowrue, twin flower, sidebells, pryola

b. What kind and amount of vegetation will be removed or altered? (See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)

Approximately 3.415 MMbf of conifer species with some disturbance to understory plants from logging operations.

1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See landscape/WAU and adjacency maps on the DNR website at: http://www.dnr.wa.gov under "SEPA Center.")

Unit 1 is bordered to the south, east, and west by a stand of timber that was evenaged harvested approximately 10-15 years ago. Restocking of the site has been successful with the planting of ponderosa pine and natural regeneration. To the north there is a stand of timber owned by the federal government that is 80+ years old and includes dbhs in the 20-30" dbh range. These tree species include Douglas fir, western larch, ponderosa pine, and aspen.

Unit 2 is bordered to the north and west by a stand of timber that was evenaged harvested approximately 5-10 years ago. These areas were artificially planted with healthy ponderosa pine. To the east and south are open parklands that have scattered ponderosa pine, western larch, and pockets of overstocked Douglas fir.

Unit 3 is bordered to the north, south, and east by pockets of overstocked Douglas fir that is 80+ years old. In addition to the Douglas fir, there are scattered ponderosa pine and western larch that are 80+ years old and in the 20-30" dbh range. The land to the west was evenaged harvested 10-15 years ago. Restocking of the site has been successful with the planting of ponderosa pine and natural regeneration.

Unit 4 is bordered to the north, south, and east by pockets of overstocked Douglas fir that is 80+ years old. In addition to the Douglas fir there are scattered ponderosa pine and western larch that are 80+ years old and in the 20-30" dbh range. The land to the west was evenaged harvested 10-15 years ago. Restocking of the site has been successful with the planting of ponderosa pine and natural regeneration.

Unit 5 is bordered to the north, south, and east by pockets of overstocked Douglas fir that is 80+ years old. Open parklands also support ponderosa pine, western larch, and aspens that are 80+ years old and in the 20-30" dbh range. The land to the west was evenaged harvested 10-15 years ago. Restocking of the site has been successful with the planting of ponderosa pine and natural regeneration.

2) Retention tree plan:

All units will be evenaged harvests where 10-17 dominant and codominant trees per acre greater than 12 inches dbh have been marked to be left within the units. Many of the large diameter trees will not be harvested. In addition, approximately 671 trees greater than 12" dbh will be retained within the Type 4 RMZ in Unit 4. Leave trees will be randomly scattered throughout the units. No snags, ponderosa pine or hardwoods in Units 1, 2, 3, 4, and 5 are to be felled during harvest operations, unless they need to be felled for safety or operational reasons. Ponderosa pine and healthy western larch will be the preferred species in all units. Ponderosa pine seedlings will be planted to increase the predominance of the early seral species on the site.

c. List threatened or endangered plant species known to be on or near the site.

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
None Found in Database Search				

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Grass seeding (native seed) along roads on disturbed soils will help to prohibit the spread of noxious weeds.

5. Animal

a. Circle or check any birds animals or unique habitats which have been observed on or near the site or are known to be on or near the site:

birds: ☒hawk, ☐heron, ☐eagle, ☐songbirds, ☐pigeon, ☐other:
mammals: ☒deer, ☒bear, ☐elk, ☐beaver, ☐other:
fish: ☐bass, ☐salmon, ☐trout, ☐herring, ☐shellfish, ☐other:
unique habitats: ☐talus slopes, ☐caves, ☐cliffs, ☐oak woodlands, ☒balds, ☐mineral springs

b. List any threatened or endangered species known to be on or near the site (include federal- and state-listed species).

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
None Found in Database Search				

c. Is the site part of a migration route? If so, explain.
☐Pacific flyaway ☒Other migration route: Explain if any boxes checked:

Mule deer may use the general area annual during migration. Potential mule deer winter range. DNR Wildlife Biologist, Paul Wik was consulted. He states in his report that a small number of individual mule deer may utilize the area but it is not critical or high density mule deer winter range.

d. Proposed measures to preserve or enhance wildlife, if any:

1) Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.

All leave trees were selected with cavity nesters and accipiters in mind. These leave trees were selected from the largest diameter classes and from deformed or cull trees with dead or broken tops, multiple tops, large branches, and/or wolfy trees where available. Approximately 18,572 feet of road will be abandoned following completion of harvest operations, which should reduce wildlife disturbance. These abandoned roads will be grass seeded with native seed to minimize the spread of noxious weeds. In addition, one Type 4 stream in Unit 4 has 50 ft. "no entry" RMZ on each side, which will provide patches of dense canopy cover for mule deer during the winter. Other proposed measures to preserve wildlife include protecting patches of hardwood in Section 21, Township 37 North, Range 32 East, W.M., found near perennial initiation point of Type 4 water. These hardwood patches are important for numerous wildlife including amphibians, birds, and big game.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Contractors will bring all the needed fuel for equipment operation. Mostly diesel fuel for operating heavy equipment.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No effect on solar energy will happen with this proposal.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

No energy conservation plans are included in this proposal.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

1) Describe special emergency services that might be required.

Washington Department of Ecology will be notified if any spills occur and appropriate action will be taken. In addition the Department of Natural Resources, private and rural fire department fire suppression resources will all be notified for fires. Emergency medical or air ambulance for personnel injuries.

2) Proposed measures to reduce or control environmental health hazards, if any:

Care will be taken to insure that fuel or other hazards do not enter surface or ground water. Compliance will be enforced with existing state laws regarding environmental health hazards. Fire equipment will be required on site during fire season.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

No noises exist in the area that would effect this proposal.

2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.

During new road construction, reconstruction, prehaul maintenance and harvest activities, there will be some noise associated with heavy equipment, saws, and log truck operations primarily during daylight hours.

3) Proposed measures to reduce or control noise impacts, if any:

Noise levels are not anticipated to cause any significant impact, therefore no mitigating measures are planned.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? (Site includes the complete proposal, e.g. rock pits and access roads.)

The site is currently used for timber production, cattle grazing, and dispersed recreational activities, such as hunting, wood cutting, and hiking. Rural residences are scattered throughout the area, but none are immediately adjacent to the site.

b. Has the site been used for agriculture? If so, describe.

Yes, some cattle grazing may occur on this site.

c. Describe any structures on the site.

There are no structures on this site.

d. Will any structures be demolished? If so, what?

No structures will be demolished as part of this proposal.

e. What is the current zoning classification of the site?

No zoning in rural Ferry County.

f. What is the current comprehensive plan designation of the site?

Rural

g. If applicable, what is the current shoreline master program designation of the site?

No shoreline master program designation for this site.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No part of this site is known to be environmentally sensitive.

i. Approximately how many people would reside or work in the completed project?

No people will reside or work in the completed timber harvest area.

j. Approximately how many people would the completed project displace?

No people will be displaced.

k. Proposed measures to avoid or reduce displacement impacts, if any:

No measures are needed to reduce impacts.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The proposal will maintain or enhance the compatibility with existing and projected land use.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

No housing units will be provided.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

There are currently no housing units on the site.

c. Proposed measures to reduce or control housing impacts, if any:

No measures are proposed.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?

No structures are proposed.

b. What views in the immediate vicinity would be altered or obstructed?

Views along the 373228 road will be altered.

1) Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?
☒No ☒Yes, viewing location:

2) Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?
☒No ☐Yes, scenic corridor name:

3) How will this proposal affect any views described in 1) or 2) above?

This proposal will not affect any views from the areas described above.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Unmanaged areas exist on all sides of the units. The primary function of these areas is to provide for future commodity production, adequate seed source, and/or provide travel cover/corridors for wildlife. These areas will help reduce the visual impacts of this proposal. Also, Unit 5 has a Type 4 stream outside the sale area boundary, which should add to aesthetical values.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Possible glare from logging equipment or windshields during daylight hours.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

The finished product will not produce light or glare.

c. What existing off-site sources of light or glare may affect your proposal?

No sources of light or glare would affect this proposal.

d. Proposed measures to reduce or control light and glare impacts, if any:

No measures are anticipated to be needed.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

There are no designated recreational areas in the sale area. Informal activities such as hunting, hiking, and camping may occur within the immediate vicinity.

b. Would the proposed project displace any existing recreational uses? If so, describe:

During harvest operations, areas of timber felling, skidding, and haul routes will be unsafe for recreational use and should be avoided.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Roads may be signed in order to inform the public of road closures, delays or other disruptions during operations. People that enjoy recreating in areas without public vehicle access will benefit from the closure (by tank traps) of 18,572 feet of road within the proposal following harvest.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None are known to be in or next to the site.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

None are known to be on the site and none show on TRAX.

c. Proposed measures to reduce or control impacts, if any:
(Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.)

If an unknown historic or cultural resource is discovered during the operation, the following process will occur: 1) Cease operations affecting the discovered site. 2) Physically identify the site on the ground so it can be located and impacts mitigated (a buffer if necessary). 3) Contact region state assistant and district manager, and work in collaboration on timing, confidentiality and notification of tribes and affected parties.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Access to all units is via Trout Creek road off Highway 20, 2.5 miles west of the town of Republic, Washington. Access into Units 1 and 2 require driving 0.7 miles up Trout Creek road and then another 1.2 miles on Sheridan county road to the Boise Cascade 373229 road. Units 3, 4, and 5 require driving 0.7 miles up Trout Creek road then turning right on Swamp Creek road for1.0 mile. Directly off to the left is the DNR 373228 road.

1) Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?

This proposal is located in a rural area where locals share the county road with land resource based industries. Homesteads are scattered throughout the area. There currently is no transportation problem to which this proposal would contribute. It is possible that this proposal could temporarily add noise, dust, maintenance or safety problems on Sheridan county road and Swamp Creek road. Warning signs will be posted informing the public of timber harvesting and hauling activities.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

The site is currently not served by public transit.

c. How many parking spaces would the completed project have? How many would the project eliminate?

There are currently no parking spaces to eliminate and none will be built.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

Yes, see A.11 and attached sale area map.

1) How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?

This proposal should have no significant on the current transportation system. The current system in the immediate area of the project has minimal use.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

It is not anticipated the project will use water, rail, or air transportation.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

This proposal should result in no increase in vehicle trips per day upon completion of the timber sale. However, log hauling may involve transporting five to ten loads per day during the course of operations. Also, see B.1.14.d.1., above.

g. Proposed measures to reduce or control transportation impacts, if any:

Approximately 18,572 feet of road will be abandoned after harvest operations are complete.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No increase for public services anticipated.

b. Proposed measures to reduce or control direct impacts on public services, if any.

No direct impacts on public services anticipated.

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

No utilities are currently available at the site.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity, which might be needed.

No utilities will be needed during or after completion of this project.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Completed by: Dwayne Shotton, Higlands Forester Date: _____
Title

Reviewed by: Loren Torgerson, Highlands District Manager Date: _____
Title

Reviewed by: Arne Johnson, Management Forester Date: _____
Title

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